## § 80.207

Class of emission	Emission des- ignator	Authorized bandwidth (kHz)
J2B4	280HJ2B	0.3
J2B <sup>5</sup>	300HJ2B	0.5
J2B	2K80J2B	3.0
J2C	2K80J2C	3.0
J2D 14	2K80J2D	3.0
J3C	2K80J3C	3.0
J3E <sup>11</sup>	2K80J3E	3.0
J3N	160HJ3N	0.4
NON	NON	0.4
PON	(12)	(12)
R3E 11	2K80R3É	3.0

- <sup>1</sup>On 500 kHz and 2182 kHz A1B, A2B, H2B and J2B emis-
- On 500 kHz and 2182 kHz A1B, A2B, H2B and J2B emissions indicate transmission of the auto alarm signals.
   Applicable only to transmissions in the 405–525 kHz band for direction finding.
   Applicable only to EPIRB's.
   Radioprinter transmissions for communications with private coast stations.
   NB-DP radiotelegraph and data transmissions for communications with public coast stations.

- "NB-DP radiotelegraph and data transmissions for communications with public coast stations.

  <sup>6</sup> Applicable only to radioprinter and data in the 156–162
  MHz band and radioprinter in the 216–220 MHz band.

  <sup>7</sup> Applicable only to facsimile in the 156–162 MHz and 216–
  220 MHz bands.

  <sup>8</sup> Applicable only whom maximum frequency deviction is 5
- 220 MHz bands.

  8 Applicable only when maximum frequency deviation is 5 kHz. See also paragraph (b) of this section.

  9 Applicable only to marine hand-held radar.

  10 Applicable only to on-board frequencies for maneuvering

- or navigation.

  11 Transmitters approved prior to December 31, 1969, for emission H3E, J3E and R3E and an authorized bandwidth of 3.5 kHz may continue to be operated. These transmitters will not be authorized in new installations.
- not be authorized in new installations.

  1º Applicable to radiolocation and associated telecommand ship stations operating on 154.585 MHz, 159.480 MHz, 160.725 MHz. 160.785 MHz, 454.000 MHz, and 459.000 MHz; emergency position indicating radiobeacons operating in the 406.000–406.1000 MHz frequency bank; and data transmissions in the 156–162 MHz band.

  1º Class C EPIRB stations may not be used after February 1,1000
- 1, 1999.

  14 The information is contained in multiple very low level
- (b) For land stations the maximum authorized frequency deviation for F3E or G3E emission is as follows:
- (1) 5 kHz in the 72.0–73.0 MHz, 75.4–76.0 MHz and 156-162 MHz bands;
- (2) 15 kHz for stations which were authorized for operation before December 1, 1961, in the 73.0-74.6 MHz band.
- [51 FR 31213, Sept. 2, 1986, as amended at 52 FR 7418, Mar. 11, 1987; 53 FR 37308, Sept. 26, 1988; 56 FR 11516, Mar. 19, 1991; 57 FR 43407, Sept. 21, 1992; 58 FR 33344, June 17, 1993; 59 FR 7714, Feb. 16, 1994; 62 FR 40305, July 28, 1997; 63 FR 36606, July 7, 1998; 68 FR 46962, Aug. 7, 2003]

## §80.207 Classes of emission.

- (a) Authorization to use radiotelephone and radiotelegraph emissions by ship and coast stations includes the use of digital selective calling and selective calling techniques in accordance with §80.225.
- (b) In radiotelegraphy communications employing a modulated carrier the carrier must be keyed and modulated by an audio frequency.
- (c) Authorization to use single sideband emission is limited to emitting a
- (1) For full carrier transmitters at a power level between 3 and 6 dB below peak envelope power;
- (2) For suppressed carrier transmitters at a power level at least 40 dB below peak envelope power; and
- (3) For reduced or variable level carrier:
  - (i) In the 1600-4000 kHz band:
- (A) For coast station transmitters 18±2 dB below peak envelope power;
- (B) For ship station transmitters installed before January 2, 1982, 16±2 dB below peak envelope power; and
- (C) For ship station transmitters installed after January 1, 1982, 18±2 dB below peak envelope power.
  - (ii) In the 4000-27500 kHz band:
- (A) For coast station transmitters 18±2 dB below peak envelope power;
- (B) For ship station transmitters installed before January 2, 1978, 16±2 dB below peak envelope power; and
- (C) For ship station transmitters installed after January 1, 1978, 18±2 dB below peak envelope power.
- (d) The authorized classes of emission are as follows:

Тур	es of stations	Classes of emission
Sh	ip Stations ¹	
Radiotelegraphy:		
		A1A.
405-525 kHz		A1A, J2A.
1615-27500 kHz:		,
		A1A, J2A, J2B, J2D.
DSC 6		F1B, J2B.
NB-DP 14, 16		F1B, J2B, J2D.
Facsimile		F1C, F3C, J2C, J3C.
156-162 MHz <sup>2</sup>		F1B, F2B, F2C, F3C, F1D, F2D.
DSC		G2B.

Types of stations	Classes of emission	
216–220 MHz <sup>3</sup>	F1B, F2B, F2C, F3C.	
1626.5–1646.5 MHz		
Radiotelephony:	( ).	
1615–27500 kHz <sup>16</sup>	H3E, J2D, J3E, R3E.	
27.5–470 MHz <sup>6</sup>		
1626.5–1646.5 MHz		
Radiodetermination:	( /-	
285–325 kHz <sup>7</sup>	A1A, A2A.	
405–525 kHz (Direction Finding) 8		
154–459 MHz: <sup>12</sup>		
2.4–9.5 GHz		
Land Stations 1		
Radiotelegraphy:		
100–160 kHz	A1A.	
405–525 kHz		
1605–2850 kHz:	110, 020.	
Manual	A1A, J2A.	
Facsimile		
Alaska-Fixed		
4000–27500 kHz:	717, 027.	
Manual 16	A1A, J2A, J2B, J2D.	
DSC <sup>18</sup>	, , , , ,	
NB-DP 14, 18		
Facsimile	,= -==, -==:	
Alaska-Fixed <sup>17, 18</sup>		
72–76 MHz	, , ,	
156–162 MHz <sup>2, 20</sup>		
DSC		
216–220 MHz <sup>3</sup>		
Radiotelephony:	1 15, 125, 120, 100.	
1615–27500 kHz <sup>18, 19</sup>	H3E, J3E, R3E.	
72–76 MHz		
156–470 MHz	- / - /	
Radiodetermination:		
2.4–9.6 GHz	PON.	
Distress, Urgency and Safety 8, 9		
2182 kHz <sup>10, 11</sup>	A2B, A3B, H2B, H3E, J2B, J3E.	
121.500 MHz		
123.100 MHz	A3E.	
156.750 and 156.800 MHz 13	G3E, G3N.	
243.000 MHz		
406.0–406.1 MHz		

## [51 FR 31213, Sept. 2, 1986]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §80.207, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO

<sup>1</sup> Excludes distress, EPIRBs, survival craft, and automatic link establishment.
2 Frequencies used for public correspondence and in Alaska 156.425 MHz. See §§ 80.371(c), 80.373(f) and 80.385(b). Transmitters approved before January 1, 1994, for G3E emissions will be authorized indefinitely for F2C, F3C, F1D and F2D emissions. Transmitters approved on or after January 1, 1994, will be authorized indefinitely for F2C, F3C, F1D and F2D emissions. Transmitters approved on or after January 1, 1994, will be authorized for F2C, F3C, F1D or F2D emissions only if they are approved specifically for each emission designator.
3 Frequencies used in the Automated Maritime Telecommunications System (AMTS). See § 80.385(b).
4 Types of emission are determined by the INMARSAT Organization.
5 [Reserved]
6 G3D emission must be used only by one-board stations for maneuvering or navigation.
7 Frequencies used for cable repair operations. See § 80.375(b).
8 For direction finding requirements see § 80.375.
9 Includes distress emissions used by ship, coast, EPIRBs and survival craft stations.
10 On 2182 kHz A1B, A2B, H2B and J2B emissions indicate transmission of the auto alarm signals.
11 Ships on domestic voyages must use J3E emission only.
12 For frequencies 154.585 MHz, 159.480 MHz, 160.725 MHz, 160.785 MHz, 454.000 MHz and 459.000 MHz, authorized for offshore radiolocation and related telecommand operations.
13 Class C EPIRB stations may not be used after February 1, 1999.
14 NB-DP operations which are not in accordance with ITU-R Recommendations M.625 or M.476 are permitted to utilize any modulation, so long as emissions are within the limits set forth in § 80.211(f).
15 J2B is permitted only on 2000-27500 kHz.
16 J2D is permitted only on 2000-27500 kHz, and ship stations employing J2D emissions shall at no time use a peak envelope power in excess of 1.5 kW per channel.
19 J2D is permitted only on 2000-27500 kHz.
20 If a station uses another type of digital emission, it must comply with the emission mask requirements of § 90.210 o